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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference OP04P091	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/KR2004/001638	International filing date(day/month/year) 02 JULY 2004 (02.07.2004)	Priority date (day/month/year) 03 JULY 2003 (03.07.2003)	
International Patent Classification (IPC) or national classification and IPC IPC7 H04Q 7/24			
Applicant SOHN, Sung-Chul			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>	
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>	

Date of submission of the demand 02 FEBRUARY 2005 (02.02.2005)	Date of completion of this report 24 JUNE 2005 (24.06.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer CHUN, DAE NYUNG Telephone No. 82-42-481-5991 

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Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☒ This report is based on translations from the original language into the following language English which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☒ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2-43, 45-58	YES
	Claims	1,44	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-58	NO
Industrial applicability (IA)	Claims	1-58	YES
	Claims	NONE	NO

2. Citations and explanations (Rule 70.7)

1) Citations

Reference is made to the following documents:

D1: KR 2002-6357 (Jan. 19, 2002)

D2: KR 2002-44404 (Jun. 15, 2002)

2) Novelty (PCT Article 33(2)) and Inventive Step (PCT Article 33(3))

The present invention and the cited inventions of D1 and D2 are to provide a system and method for providing zone-based personalized information to a user of a mobile communication terminal located in a specific zone by acquiring information of the mobile communication terminal entering a specific zone.

The present invention is similar to the cited inventions of D1 and D2 in the purpose and effect, that is, in providing zone information, and the server and SMS server for providing zone information are also disclosed in D1.

The means of signal processing (e.g. antenna, modulator, filter, etc.) disclosed in claims 3 and 5 are a simple list of means wellknown in the art, the fire detecting part of claim 4 is a simple addition of a function without any particularity, and the terminal information by MAC address is merely a simple selection of identity of a terminal which is expected.

Claims 10, 15, 23, 29 and 38 define the zone management system having diverse frequencies (e.g. bluetooth signal, 2.4GHz band for LAN, BCDMA signal, 915MHz band, radio band, etc.). Said frequency signals are already in service, or they are merely selections of expected signals. Consequently, they are not considered to have any technical characteristics.

(Continued in Supplemental Box.)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Box V.

Accordingly, claims 1 and 44, which relate to a system and a method for providing zone-based information using an HLR (Home Location Register) and an SMS message center, are considered to lack novelty.

Claims 2-43 and 45-58 merely list the technical features which a person skilled in the art would select in accordance with circumstances. Therefore, an inventive step cannot be acknowledged for claims 2-43 and 45-58. However, since a fire detecting part is not found in the prior art, the claims which include a fire detecting part can be considered to involve an inventive step.

3) Industrial Applicability (PCT Article 33(4))

All claims are considered to be industrially applicable.